BRIGGS&STRATTON
ENERGY SOLUTIONS

LIQUID COOLED

Standby Generators

SPECIFICATIONS

OVERVIEW				
Brand	Briggs & Stratton®			
Model Number	080010	080011	080012	080013
Rated Countries	US / Canada			
Rated AC Voltage (Volts)	120 / 240	120 / 208	120 / 240	277 / 480
Frequency (Hz)	60			
Generator Breaker (Amps)	500	400	350	175
Operating Ambient Temperature (°C / °F)	-28 - 40 / -20 - 104			
Running Amperage (Amps)	416	347	301	150
Running Watts[1] (NG / LP)	100 / 100	100 / 125		
Running Amperage - Continuous Duty (International Use Only) (Amps)	333	277	240	120
Running Watts - Continuous Duty (International Use Only) (NG / LP) (kW / kVA)	80 / 80	80 / 100		
Phase	1	3		
Engine				
Engine Brand/Manufacturer	PSI			
Model Type	5.7L Industrial Powertrain, 4-cycle			
Aspriration	Turbo Charge Air Cooled			
Speed (RPM)	1800			
Displacement (L / ci)	5.7 / 350			
Compression Ratio	9.4:1			
Rated Horsepower (gross hp)	163			
Governor Type	Electronic			
Bore & Stroke (mm / in)	101.6 x 88.4 / 4.00 x 3.48			
Number of Cylinders	8			
Cylinder Arrangement	V8			
Start Type	Automatic			

100
kW

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Engine				
Frequency Regulation Steady State, No Load to Full Load (%)	+/- 0.5			
Frequency Regulation No Load to Full Load	Isochronous			
Air Filter Type	Dry			
Low Oil Pressure Sensor	Yes			
Low Coolant Sensor	Yes			
Engine Block Heater	Yes			
Engine - Output Deratings				
Rated Temperature (°C / °F)	25 / 77			
Rated Altitude (Above Sea Level) (m / ft)	366 / 1200			
Temperature Derate	1.5% for every 5.6°C (10°F) above rated temp			
Altitude Derate	2.5% for every 305m (1000ft) above rated altitude			
Sound Rating[2]				
No Load dB(A)	81			
Air Induction System				
Combustion Air (m^3/min / cfm)	7.4 / 262			
Lubrication System				
Type	Full Pressure			
Oil Capacity (L / qt)	4.7 / 5.0			
Oil Filter (Quantity / Type)	1 / Cartridge			
Cooling System				
Cooling System Type	Radiator, Closed-Loop			
Coolant Capacity (Engine Only) (L / qt)	7.8 / 8.1			
Coolant Capacity (System Total) (L / qt)	34.2 / 36.1			
Heat Rejected to Cooling Water at Rated Load (kcal/sec / BTU/min)	17.2 / 4100			
Water Pump Type	Centrifugal			
Electrical System				
Ignition System	HVS Distributor			
Battery Quantity	1			
Battery Voltage (VDC)	12			
Battery CCA (Amps)	630			
Starter Motor Voltage (VDC)	12			
Battery Charging Alternator				
Ground (Negative / Positive)	Negative			
Nominal Voltage (VDC)	12			
Maximum Amperage (Amps)	70			

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Exhaust System				
Exhaust Manifold Type	Dry			
Exhaust Flow at Rated Load (m³/min / cfm)	24 / 846			
Exhaust Temperature at Rated Load (°C / °F)	732 / 1350			
Maximum Allowable Back Pressure (kPa / in Hg)	10.2 / 3.0			
Fuel System				
Fuel Type	LP Vapor / Natural Gas			
Fuel Supply Line Inlet	1 1/4" NPT			
Recommended Fuel, Lower Heating Value Minimum (MJ/m3 / BTU/ft³)	34.3 / 904			
Fuel Supply Pressure (LPV/NG: mbar / in H_2O) (Liquid LP: kPa / PSI)	17-28 / 7-11			
Fuel Consumption[3]				
No Load, NG (BTU/hr)	311,000			
No Load, NG (ft³/hr)	311			
No Load, NG (m³/hr)	8.9			
Half Load, NG (BTU/hr)	893,000			
Half Load, NG (ft³/hr)	893			
Half Load, NG (m³/hr)	25.3			
Full Load, NG (BTU/hr)	1,470,000			
Full Load, NG (ft³/hr)	1,470			
Full Load, NG (m³/hr)	41.7			
No Load, LP/LPV (BTU/hr)	283,000			
No Load, LP/LPV (ft³/hr)	113			
No Load, LP/LPV (m³/hr)	3.2			
Half Load, LP/LPV (BTU/hr)	835,000			
Half Load, LP/LPV (ft³/hr)	334			
Half Load, LP/LPV (m³/hr)	9.5			
Full Load, LP/LPV (BTU/hr)	1,462,000			
Full Load, LP/LPV (ft³/hr)	585			
Full Load, LP/LPV (m³/hr)	16.6			
Alternator Specifications				
Alternator Type	Brushless, 4-Lead	Brushless, 12-Lead		
Alternator Manufacturer	MeccAlte			
Alternator Model Number	ECP34-2L/4	ECP34-1L/4		
Frequency (Hz)	60			

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Exciter Type - Primary Alternator	Auxiliary Winding			
Insulation Rating (Class)	H			
Designed Temperature Rise (°C)	125			
Bearing (Quantity / Type)	1 / Sealed			
Coupling	Flexible Disk			
Amortisseur Windings	Full			
Number of Poles	4			
Voltage Regulator	Digital, 1-phase Sensing			
Voltage Regulation, No Load to Full Load (%)	+/- 1.0			
One-step Load Acceptance	100% of Rating			
Sustained Short-Circuit Current	300% of Rated Current for 20 Seconds			
Total Harmonic Distortion (THD), No Load to Full Load (%)	< 4.5	< 3.5		
Controls/Instrumentation				
Controller Manufacturer	Deep Sea			
Controller	DSE 7310 MKII			
Charger	Marinco 6 Amp			
Starting	2-wire			
Alternator Frequency	Yes			
Real Time Clock	Yes			
Single & 3-phase Sensing	Yes			
Accumulated Power Monitoring	Yes			
Runtime & Downtime Monitoring	Yes			
Configurable Outputs	Yes			
Configurable Inputs	Yes			
Engine Maintenance Alarms	Yes			
Engine Hour Counter	Yes			
Engine Runtime Scheduler	Yes			
Event Log	Yes			
Web-based Monitoring	Yes			
Controller Features				
Heated Display Option	Yes			
True 3-phase Generator Sensing	Single-phase	Yes		
Power Monitoring (kW, kVA, kVAR)	Yes			
Remote Communications (RS232 & RS485) Capable	Yes			

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Controller Features				
Configurable Inputs / Outputs	Yes			
CAN Sensing	Yes			
Configurable Display Languages	Yes			
Power Save Mode	Yes			
Integral PLC Editor	Yes			
Flexible Sender Inputs	Yes			
DSE Configuration Suite PC Software	Yes			
Configurable Event Log (250)	Yes			
Load Switching, Load Shedding & Dummy Load Outputs	Yes			
Other Features				
Alternator Protection	Yes			
Battery Rack and Cables	Yes			
Battery	Yes			
Electronic, Isochronous Governor	Yes			
Gas Fuel System	Yes			
Integral Vibration Isolation	Yes			
Operation and Installation Manual(s)	Yes			
Steel Sound Enclosure	Yes			
Accessories				
Liquid Propane Vaporizer Kits	6504-01			
Battery Charger, 9461-02	6463-00			
Remote Annunciator, DSE 2548-01	6465-00			
Remote Display, DSE 2510-32	6466-00			
Emergency Stop Switch, NEMA 4X	6360-00			
Emergency Stop Switch, w/ Cover	6361-00			
Battery Warmer	6343-00			
Battery Cable Lockout	6335-00			
Engine Communication Cable	6350-00			
AVR Communication Cable	6472-00			
Controller Communication Cable, USB-A to USB-B	6428-00			
Remote Annunciator Kit, DSE 2548-01	6468-00			

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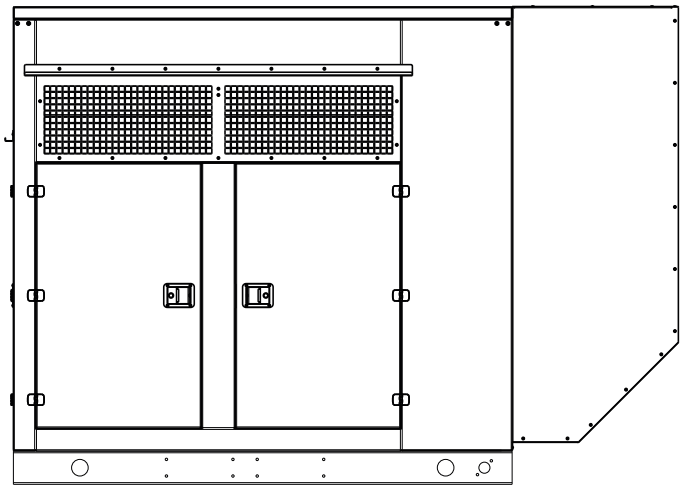
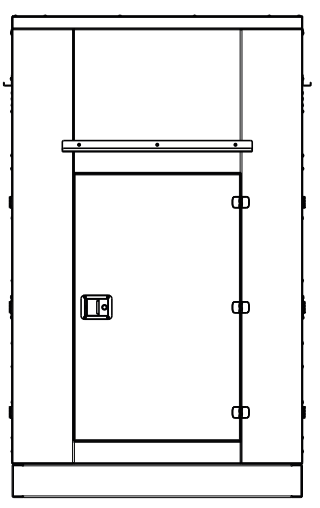
Limited Warranty[4]				
Warranty: Generator, Domestic (Parts / Labor / Travel) (Years)	3			
Warranty: Generator, International (Parts / Labor / Travel) (Years / Hours)	3 / 1000			
Warranty: Engine, Domestic (Parts / Labor / Travel) (Years)	3			
Warranty: Engine, International (Parts / Labor / Travel) (Years / Hours)	3 / 1000			
Warranty: Enclosure, Surface Rust and Corrosion (Parts / Labor / Travel) (Years)	1			
Warranty: Enclosure, Rust Through (Parts / Labor / Travel) (Years)	2			
Certifications				
UL	Yes			
cUL	Yes			
Weights & Dimensions				
Assembled Dimensions (Length x Width x Height) (in / mm)	120 x 52 x 86 / 3048 x 1321 x 2184			
Assembled Weight (lbs / kg)	4125 / 1871			
Packaged Dimensions (Length x Width x Height) (in / mm)	127 x 58 x 92 / 3226 x 1473 x 2337			
Packaged Weight (lbs / kg)	4295 / 1948			



120 in (3048 mm)



86 in (2184 mm)

52 in (1321 mm)

[1] This generator is listed in accordance with UL (Underwriters Laboratories) 2200 (stationary engine generator assemblies) and CSA (Canadian Standards Association) standard C22.2 No. 100-14 (motor and generators).

[2] Per ISO 3744. Sound level measurement at other locations around generator may differ depending on installation, based on lowest microphone at 7m. Normal operation based on average household usage.

[3] Fuel consumption rates are estimated based on normal operating conditions. Generator operation may be greatly affected by elevation and the cycling operation of multiple electrical appliances — fuel flow rates may vary depending on these factors.

[4] See operator's manual or energy.briggsandstratton.com for complete warranty details.

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Briggs & Stratton has a policy of continuous product improvement and reserves the right to modify its specifications at any time and without prior notice

This standby generator is not for Prime Power applications.

Please visit energy.briggsandstratton.com for the latest information.

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